Quarterly Progress Report

Project Title:	Computer Modeling and Simulation of New Jersey Signalized Highways				
RFP Number: 2001-01		NJDOT Research Project Manager: Karl Brodtman, NJDOT			
Task Order Number/Study Number: 32			Pincipal Investigator: Chien, Steven I-Jy		
Period Starting: (Start-End Date of St	1/1/02 (udy)	- 12/31/03	Period Ending:	04/04/2003	

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Review of Literature and Current Practice	4	5	100	3.8
Prototype Development	10	0	95	9.5
Site Identification and Data Collection Needs	10	0	100	10
Data Collection	15	0	100	15
Network Modeling with SYNCHRO and CORSIM	15	5	65	9.75
Optimization of Signal Timing Plan with SYNCHRO and CORSIM	20	20	50	10
Generation of Traffic Signal Directives	10	0	0	0
Development of Tutorial for the NJDOT Engineers in the SYNCHRO Environment	8	0	0	0
Final Report with Documentation of SYNCHRO Models	8	0	20	1.6
Final Report				
TOTAL	100 %			59.7 %

1.Progress this quarter by task:

1. Louis Berger Associates provided traffic volume for Route 42/322. A full package of data incuding manual turning movments counts and intersection sketches were provided. 2. Traffic volume data for the Route 23 Corridor was entered into Synchro computer software. NJDOT was provided with a copy of the output results to verify the accuracy of the traffic signal timing data. NJDOT has been provided with a CD of the Route 23 network output. The simulation will be field verified by NJDOT.

2. Proposed activities for next quarter by task:

1. Verify results from SYNCHRO output for Route 23. Optimize the Route 23 network and develop revised timing plans. Include recommendations for traffic signal timing and phasing enhancements. 2. Commence data input for the Route 42/322 corridor.

3. List of deliverables provided in this quarter by task (product date):

Draft Literature Review SYNCHRO 5.0 Networks for various time periods

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4. Progress on implementation and training activities:

none yet

5. Problems/proposed solutions:

none yet

6. Budget summary:

Total Project Budget (# Years)	2 Year	\$149,585.00	
Total Project Expenditure to date		\$82,300.00	
% of Total Project Budget Expended	55.02%		
Task Order Number/ Study Number	1 Year	32	
Current Task Order Budget (# of Years)	\$149,585.00		
Actual Expenditure to Date Against Current T	\$82,300.00		
% of Current Task Order Budget Expended	55.02%		